

Abstract

5 A method for improving the bit error rate of a modulated optical signal
transmitted over single mode fiber is provided. The modulating voltage supplied to a
single arm or alternatively to both arms of a Mach-Zehnder modulator is increased to
result in a reduced extinction ratio of the modulated optical signal. This results in an
optimum optical signal with a reduced bit error rate at a receiver coupled to the Mach-
Zehnder modulator.

10